



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

**NOTICE OF ALLOWANCE AND ISSUE FEE DUE**

022249  
LYON & LYON LLP  
SUITE 4700  
633 WEST FIFTH STREET  
LOS ANGELES CA 90071-2066

LM12/0509

| APPLICATION NO.       | FILING DATE | TOTAL CLAIMS              | EXAMINER AND GROUP ART UNIT | DATE MAILED   |
|-----------------------|-------------|---------------------------|-----------------------------|---------------|
| 09/224,477            | 12/31/98    | 005                       | BANKS HAROLD, M             | 2745 05/09/00 |
| First Named Applicant | DIXON,      | 35 USC 154(b) term ext. = |                             |               |

TITLE OF INVENTION: WIRELESS CELLULAR COMMUNICATION SYSTEM

| ATTY'S DOCKET NO. | CLASS-SUBCLASS | BATCH NO. | APPLN. TYPE | SMALL ENTITY | FEE DUE   | DATE DUE |
|-------------------|----------------|-----------|-------------|--------------|-----------|----------|
| 2 239/104         | 455-422.000    | M31       | UTILITY     | NO           | \$1210.00 | 08/09/00 |

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.**

**THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.**

**HOW TO RESPOND TO THIS NOTICE:**

- I. Review the SMALL ENTITY status shown above.  
If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:
  - A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
  - B. If the status is the same, pay the FEE DUE shown above.
- If the SMALL ENTITY is shown as NO:
  - A. Pay FEE DUE shown above, or
  - B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.
- II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give application number and batch number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**

PATENT AND TRADEMARK OFFICE COPY

# Notice of Allowability

Application No.  
09/224,477

Applicant(s)  
DIXON

Examiner  
Marsha D. Banks-Harold

Group Art Unit  
2745



All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance and Issue Fee Due or other appropriate communication will be mailed in due course.

☒ This communication is responsive to the letter filed on 4/06/2000

☒ The allowed claim(s) is/are 17-21

☐ The drawings filed on \_\_\_\_\_ are acceptable.

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some\* ☐ None of the CERTIFIED copies of the priority documents have been

☐ received.

☐ received in Application No. (Series Code/Serial Number) \_\_\_\_\_

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE THREE MONTHS FROM THE "DATE MAILED" of this Office action. Failure to timely comply will result in ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

☐ Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.

☐ Applicant MUST submit NEW FORMAL DRAWINGS

☐ because the originally filed drawings were declared by applicant to be informal.

☐ including changes required by the Notice of Draftsperson's Patent Drawing Review, PTO-948, attached hereto or to Paper No. \_\_\_\_\_

☐ including changes required by the proposed drawing correction filed on \_\_\_\_\_, which has been approved by the examiner.

☐ including changes required by the attached Examiner's Amendment/Comment.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the reverse side of the drawings. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

☐ Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Any response to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE/SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included.

## Attachment(s)

☐ Notice of References Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). \_\_\_\_\_

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

☐ Interview Summary, PTO-413

☐ Examiner's Amendment/Comment

☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

☒ Examiner's Statement of Reasons for Allowance

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***DETAILED ACTION***

***Continued Prosecution Application***

1. The request filed on 08/10/99 for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No. 09/224,477 is acceptable and a CPA has been established. An action on the CPA follows.

***Allowable Subject Matter***

2. **Claims 17-21** are allowed.
3. The following is an examiner's statement of reasons for allowance:

Regarding **claim 17**, the prior art of record failed to specifically disclose or fairly suggest a multiple user wireless communication system comprising several cells, a base station, and several user stations, where transmitters in a first cell were assigned a first code for communication in the first cell, where the radio signals used in the first cell were spread so that the receivers in the second cell, where the second cell was adjacent to the first cell, could differentiate between the communication from the first and second cells, where the first cell with the first code was not adjacent to any of the other cells using the first code. In addition, the prior art of record failed to specifically disclose or fairly suggest where the base station transmitted over a first frequency and the user stations transmitted with the base stations over a second frequency different from the first frequency.

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Regarding **claim 19**, the prior art of record failed to specifically disclose or fairly suggest a wireless communication system comprising several cells, a base station, several user stations, wherein the base station was assigned a first frequency for transmission to a first cell and where the first transmission frequency was not assigned to any other base station for transmission to any cell in the several cells adjacent to the first cell. In addition, the prior art of record failed to specifically disclose or fairly suggest where each user station in the first cell was assigned a second transmission frequency, where the second transmission frequency was not assigned to any of the user stations in any cell adjacent the first cell. Further, the base station and the user stations were assigned distinct codes for communication for the first cell.

The prior art of record provided numerous teachings of wireless communication systems used for the separation of various frequencies. However, the prior art of record failed to specifically disclose or fairly suggest the claimed wireless communication system with the elements as previously described above.

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*Conclusion*

4. Any response to this office action should be mailed to:

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

or faxed to:

(703) 305-9051, (for formal communications intended for entry)

Or:

(703) 305-9508 (for informal or draft communications, please label  
"PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park 11, 2021 Crystal Drive,  
Arlington, VA., Sixth Floor (Receptionist).

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marsha D. Banks-Harold whose telephone number is (703) 305-4379. The examiner can normally be reached on Monday through Thursday (first week of bi-week) and Monday through Friday (second week of bi-week) from 6:30 a.m. to 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Reinhard Eisenzopf, can be reached on (703) 305-4711. The fax phone number for this Group is (703) 305-9508.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-4700.

*MDB-H*  
MDB-H/mdB-h  
May 2, 2000

*Nguyen Vo*  
5/4/00

NGUYEN VO  
PRIMARY EXAMINER